



**STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
COOKEVILLE ENVIRONMENTAL FIELD OFFICE**

**DIVISION OF WATER RESOURCES
1221 SOUTH WILLOW AVENUE
COOKEVILLE, TN 38506**

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April 5, 2013

Mr. Ronnie Kelly, Director
Dept. of Water Quality Control
City of Cookeville
P.O. Box 998
Cookeville, TN 38506

**Re: Compliance Evaluation Inspection
Cookeville Water Treatment Plant
Individual NPDES # TN0005231 – Permit Expires September 29, 2013
Receiving Waters: Alum Lick Branch (Center Hill Lake), Putnam County, TN**

Dear Mr. Kelly:

On March 27, 2011 personnel from the Tennessee Division of Water Resources (DWR) conducted a Compliance Evaluation Inspection at the Cookeville Water Treatment Plant (WTP). The purpose of the inspection was to evaluate compliance with an individual NPDES permit for WTP filter backwash and sedimentation basin discharge and to determine the reliability of data being submitted on Discharge Monitoring Reports (DMRs). The discharge is to Alum Lick Branch at mile 1.0 (Center Hill Lake) to Mine Lick Creek at mile 4.2 (Center Hill Lake). We extend our thanks to Water Treatment Plant personnel for their time and courtesy during the inspection.

Permit

The Cookeville WTP is operating under individual NPDES Permit No. TN0005231. Coverage under this permit became effective on November 1, 2008, and will expire on September 29, 2013. The permit requires that monthly analytical sampling of the discharge water be conducted for certain parameters. The results of these analyses are to be recorded and submitted to the Division via monthly DMRs.

Facility

Filter backwash water, pump cooling water and finished water from the lab sink are normally discharged to the old concrete basin behind the WTP. The contents of the basin are then pumped to three "new" lagoons for solids settling prior to discharge to Alum Lick Branch (Center Hill Lake). Sludge from the basins is land applied at an approved sight adjacent to the lagoons. The water being discharged from the outfall at the time of the inspection was observed to be clear. The facility is currently going through an upgrade with the addition of another wet well, upgrades to the control systems, and new laboratories.

Laboratory Review

Records of monthly analytical sampling of the discharge water are being maintained at the WTP and were readily available for review. The records were found to be consistent with the data submitted on the DMRs. The DMRs are promptly sent to the Nashville Central Office. The laboratory and associated equipment and instruments were well-maintained and organized. Sample analyses for settleable solids, iron, total residual chlorine, and pH are being performed at the water plant. Suspended solids samples are taken to the Cookeville Wastewater Treatment Plant for testing.

The following laboratory technique corrections should be implemented:

- Develop a Standard Operating Manual (SOP) for plant operation and testing procedures necessary to fulfill the NPDES permit requirements. The SOP should include Quality Control/Quality Assurance procedures and a method for recording this data.
- Standard method (2540 F) should be reviewed and implemented in the determination of settleable solids.

If you have any questions, please contact Brian Mayo at (931) 432-7631 or by e-mail at Brian.Mayo@tn.gov.

Sincerely,



Oakley Hall
Division of Water Resources
Cookeville Environmental Field Office

Cc: Mr. Johnny Walker, DWR Cookeville EFO, *(via e-mail)*
WPC EFO File (Putnam Co.)

Enclosure: EPA 3560 Form



United States Environmental Protection Agency
Washington, D.C. 20460

Water Compliance Inspection Report

Section A: National Data System Coding (i.e., PCS)

Transaction Code 1 [N] 2 [5]	NPDES 3 [T] [N] [0] [0] [0] [5] [2] [3] [1] 11	yr/mo/day 12 [1] [3] [0] [3] [2] [7] 17	Inspection Type 18 [C]	Inspector 19 [5]	Fac Type 20 [1]
Remarks 21 Cookeville Water Treatment Plant (Individual) 66					
Inspection Work Days 67 [1] [5] 69	Facility Self-Monitoring Evaluation Rating 70 [4]	BI 71 [N]	QA 72 [N]	Reserved 73 [] [] [] [] [] [] 74 75 [] [] [] [] [] [] 80	

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) Cookeville WTP 9722 Water Plant Rd. Baxter, TN 38544	Entry Time/Date ~12:00am 3/27/13	Permit Effective Date November 1, 2008
	Exit Time/Date ~3:00pm 3/27/13	Permit Expiration Date September 29, 2013
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Mr. Rodger Phillips - Operator Phone: (931) 858-2646 Fax: (931) 526-5376	Other Facility Data (e.g., SIC NAICS, and other descriptive information) Filter backwash water, pump cooling water, and finished laboratory sink water are discharged to old concrete basin then pumped to earthen settling basins prior to discharge to Aum Lick Branch	
Name, Address of Responsible Official/Title/Phone and Fax Number Mr. Ronnie Kelly, Director P.O. Box 998 Cookeville, TN 38503 Contacted <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Phone: (931) 520-5259 Fax: (931) 526-5376		


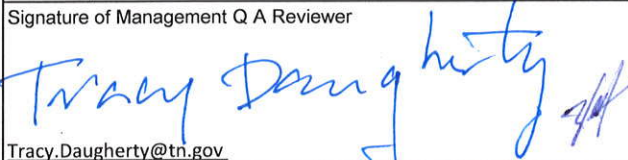
Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input checked="" type="checkbox"/> Self-Monitoring Program	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> MS4
<input checked="" type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedules	<input type="checkbox"/> Pollution Prevention	
<input checked="" type="checkbox"/> Facility Site Review	<input checked="" type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	
<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input checked="" type="checkbox"/> Flow Measurement	<input checked="" type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes	SEV Description	*See Attached Letter		
		Action Outcomes	Rating Codes	
[] [] [] []		*Permit & Records	No violation	satisfactory
[] [] [] []		*Facility Site Review	No violation	satisfactory
[] [] [] []		*Effluent/Rec. Waters	No violation	satisfactory
[] [] [] []		*Flow Measurement	No violation	satisfactory
[] [] [] []		*Self Monitoring	No violation	satisfactory
[] [] [] []		*Laboratory	No violation	satisfactory
[] [] [] []		*Operations & Maintenance	No violation	satisfactory
[] [] [] []		*Sludge Handling	No violation	satisfactory
		*		

Name(s) and Signature(s) of Inspector(s)  Brian.Mayo@tn.gov	Agency/Office/Phone and Fax Numbers Tennessee Division of Water Resources Cookeville Environmental Field Office 931-432-4015 (office)/931-432-6952 (fax)	Date 4/5/2013
Signature of Management Q A Reviewer  Tracy.Daugherty@tn.gov	Agency/Office/Phone and Fax Numbers Tennessee Division of Water Resources Cookeville Environmental Field Office 931-432-4015 (office)/931-432-6952 (fax)	Date 4/8/2013